

FILE 'HOME' ENTERED AT 16:35:03 ON 07 APR 2006

=> index all

FILE 'ENCOMPLIT2' ACCESS NOT AUTHORIZED

FILE 'ENCOMPAT2' ACCESS NOT AUTHORIZED

COST IN U.S. DOLLARS

| SINCE FILE | TOTAL   |
|------------|---------|
| ENTRY      | SESSION |
| 0.21       | 0.21    |

FULL ESTIMATED COST

INDEX '1MOBILITY, 2MOBILITY, ABI-INFORM, ADISCTI, AEROSPACE, AGRICOLA, ALUMINIUM, ANABSTR, ANTE, APOLLIT, AQUALINE, AQUASCI, AQUIRE, BABS, BIBLIODATA, BIOENG, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, BLLDB, CABA, CAOLD, CAPLUS, CASREACT, CBNB, CEABA-VTB, ...'

ENTERED AT 16:35:15 ON 07 APR 2006

139 FILES IN THE FILE LIST IN STNINDEX

Enter SET DETAIL ON to see search term postings or to view search error messages that display as 0\* with SET DETAIL OFF.

=> s ((surface (2a) enhanced (2a) raman) AND (coherent (2a) (anti-stokes) (2a) rar

1 FILE AEROSPACE  
1 FILE ANABSTR  
1 FILE BIOSIS  
8 FILE BIOTECHABS  
8 FILE BIOTECHDS

20 FILES SEARCHED...

1 FILE CABA  
19 FILE CAPLUS  
5 FILE COMPENDEX

35 FILES SEARCHED...

1 FILE DGENE  
2 FILE DISSABS

50 FILES SEARCHED...

1 FILE EMBASE  
1 FILE ENCOMPLIT  
1 FILE ENERGY  
1 FILE EPFULL

60 FILES SEARCHED...

22 FILE IFIPAT

76 FILES SEARCHED...

9 FILE INPADOC  
7 FILE INSPEC

89 FILES SEARCHED...

2 FILE MEDLINE  
2 FILE NTIS  
3 FILE PASCAL  
28 FILE PCTFULL

105 FILES SEARCHED...

6 FILE SCISEARCH  
2 FILE TEMA  
2 FILE TOXCENTER

127 FILES SEARCHED...

59 FILE USPATFULL  
8 FILE USPAT2  
12 FILE WPIDS

135 FILES SEARCHED...

12 FILE WPINDEX

28 FILES HAVE ONE OR MORE ANSWERS, 139 FILES SEARCHED IN STNINDEX

L1 QUE ((SURFACE (2A) ENHANCED (2A) RAMAN) AND (COHERENT (2A) (ANTI-STOKES) (2A) RAMAN))

=> d rank

|    |    |           |
|----|----|-----------|
| F1 | 59 | USPATFULL |
| F2 | 28 | PCTFULL   |
| F3 | 22 | IFIPAT    |

|     |    |            |
|-----|----|------------|
| F4  | 19 | CAPLUS     |
| F5  | 12 | WPIDS      |
| F6  | 12 | WPINDEX    |
| F7  | 9  | INPADOC    |
| F8  | 8  | BIOTECHABS |
| F9  | 8  | BIOTECHDS  |
| F10 | 8  | USPAT2     |
| F11 | 7  | INSPEC     |
| F12 | 6  | SCISEARCH  |
| F13 | 5  | COMPENDEX  |
| F14 | 3  | PASCAL     |
| F15 | 2  | DISSABS    |
| F16 | 2  | MEDLINE    |
| F17 | 2  | NTIS       |
| F18 | 2  | TEMA       |
| F19 | 2  | TOXCENTER  |
| F20 | 1  | AEROSPACE  |
| F21 | 1  | ANABSTR    |
| F22 | 1  | BIOSIS     |
| F23 | 1  | CABA       |
| F24 | 1  | DGENE      |
| F25 | 1  | EMBASE     |
| F26 | 1  | ENCOMPLIT  |
| F27 | 1  | ENERGY     |
| F28 | 1  | EPFULL     |

=> file medline caplus scisearch  
COST IN U.S. DOLLARS

| SINCE FILE | TOTAL   |
|------------|---------|
| ENTRY      | SESSION |
| 4.27       | 4.48    |

FULL ESTIMATED COST

FILE 'MEDLINE' ENTERED AT 16:39:21 ON 07 APR 2006

FILE 'CAPLUS' ENTERED AT 16:39:21 ON 07 APR 2006  
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.  
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FILE 'SCISEARCH' ENTERED AT 16:39:21 ON 07 APR 2006  
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=> s ((surface (2a) enhanced (2a) raman) AND (coherent (2a) (anti-stokes) (2a) rar  
L2 27 ((SURFACE (2A) ENHANCED (2A) RAMAN) AND (COHERENT (2A) (ANTI-STO  
KES) (2A) RAMAN))

=> dup remove l2  
PROCESSING COMPLETED FOR L2  
L3 20 DUP REMOVE L2 (7 DUPLICATES REMOVED)

=> d ti 1-20

L3 ANSWER 1 OF 20 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Nucleic acid sequencing by raman monitoring of uptake of nucleotides  
during molecular replication

L3 ANSWER 2 OF 20 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Methods for nucleic acid sequencing by Raman spectroscopy monitoring of  
uptake of nucleotides during molecular replication

L3 ANSWER 3 OF 20 MEDLINE on STN DUPLICATE 1  
TI Single-molecule detection of biomolecules by surface-enhanced  
\*\*\*coherent\*\*\* \*\*\*anti\*\*\* - \*\*\*Stokes\*\*\* \*\*\*Raman\*\*\*  
scattering.

L3 ANSWER 4 OF 20 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation on  
STN  
TI \*\*\*Coherent\*\*\* \*\*\*anti\*\*\* - \*\*\*Stokes\*\*\* \*\*\*Raman\*\*\*  
scattering on single-walled carbon nanotubes and copper phthalocyanine  
thin films excited through surface plasmons

L3 ANSWER 5 OF 20 CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 2

TI \*\*\*Coherent\*\*\* \*\*\*anti\*\*\* - \*\*\*Stokes\*\*\* \*\*\*Raman\*\*\*  
 scattering on single-walled carbon nanotube thin films excited through  
 surface plasmons

L3 ANSWER 6 OF 20 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI Spectroscopic analysis system and method

L3 ANSWER 7 OF 20 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI Methods to increase nucleotide signals by Raman scattering

L3 ANSWER 8 OF 20 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI Methods and device for DNA sequencing using Raman spectroscopy

L3 ANSWER 9 OF 20 CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 3  
 TI Amplification of \*\*\*coherent\*\*\* \*\*\*anti\*\*\* - \*\*\*Stokes\*\*\*  
 \*\*\*Raman\*\*\* scattering by a metallic nanostructure for a high resolution  
 vibration microscopy

L3 ANSWER 10 OF 20 MEDLINE on STN DUPLICATE 4  
 TI Raman spectroscopy in chemical bioanalysis.

L3 ANSWER 11 OF 20 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI Methods and device for nucleic acid sequencing by detecting Raman labeled  
 nucleotides cross-linked to silver or gold nanoparticles using Raman  
 spectroscopy

L3 ANSWER 12 OF 20 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI Methods and device for DNA sequencing using Raman spectroscopy

L3 ANSWER 13 OF 20 CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 5  
 TI A \*\*\*Surface\*\*\* - \*\*\*Enhanced\*\*\* \*\*\*Raman\*\*\* and ab Initio Study  
 of Spectra of Lumazine Molecules

L3 ANSWER 14 OF 20 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI Novel experimental and calculation methods in vibrational spectroscopy

L3 ANSWER 15 OF 20 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI Experimental observation of surface-enhanced \*\*\*coherent\*\*\*  
 \*\*\*anti\*\*\* - \*\*\*Stokes\*\*\* \*\*\*Raman\*\*\* scattering

L3 ANSWER 16 OF 20 CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 6  
 TI Surface-enhanced nonlinear spectroscopy

L3 ANSWER 17 OF 20 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI New developments in Raman spectroscopy

L3 ANSWER 18 OF 20 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI Analytical application of laser Raman spectrometry

L3 ANSWER 19 OF 20 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI Surface enhancement of \*\*\*coherent\*\*\* \*\*\*anti\*\*\* - \*\*\*Stokes\*\*\*  
 \*\*\*Raman\*\*\* scattering by colloidal spheres

L3 ANSWER 20 OF 20 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI \*\*\*Surface\*\*\* -electromagnetic-wave- \*\*\*enhanced\*\*\* \*\*\*Raman\*\*\*  
 scattering by overlayers on metals

=> d 3

L3 ANSWER 3 OF 20 MEDLINE on STN DUPLICATE 1  
 AN 2005265331 MEDLINE  
 DN PubMed ID: 15906991  
 TI Single-molecule detection of biomolecules by surface-enhanced  
 \*\*\*coherent\*\*\* \*\*\*anti\*\*\* - \*\*\*Stokes\*\*\* \*\*\*Raman\*\*\*  
 scattering.  
 AU Koo Tae-Woong; Chan Selena; Berlin Andrew A  
 CS Precision Biology, Intel Research/CTM, Intel Corporation, Santa Clara,  
 California 95054, USA.. tae-woong.t.koo@intel.com  
 SO Optics letters, (2005 May 1) Vol. 30, No. 9, pp. 1024-6.  
 Journal code: 7708433. ISSN: 0146-9592.  
 CY United States

DT (EVALUATION STUDIES)  
Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 200507  
ED Entered STN: 20050524  
Last Updated on STN: 20050706  
Entered Medline: 20050705

=> d 9

L3 ANSWER 9 OF 20 CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 3  
AN 2004:148792 CAPLUS  
DN 140:382472  
TI Amplification of \*\*\*coherent\*\*\* \*\*\*anti\*\*\* - \*\*\*Stokes\*\*\*  
\*\*\*Raman\*\*\* scattering by a metallic nanostructure for a high resolution  
vibration microscopy  
AU Hayazawa, Norihiko; Ichimura, Taro; Hashimoto, Mamoru; Inouye, Yasushi;  
Kawata, Satoshi  
CS Department of Applied Physics, Osaka University, Suita, 565-0871, Japan  
SO Journal of Applied Physics (2004), 95(5), 2676-2681  
CODEN: JAPIAU; ISSN: 0021-8979  
PB American Institute of Physics  
DT Journal  
LA English  
RE.CNT 36 THERE ARE 36 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d 11

L3 ANSWER 11 OF 20 CAPLUS COPYRIGHT 2006 ACS on STN  
AN 2003:757874 CAPLUS  
DN 139:256255  
TI Methods and device for nucleic acid sequencing by detecting Raman labeled  
nucleotides cross-linked to silver or gold nanoparticles using Raman  
spectroscopy  
IN Su, Xing; Berlin, Andrew; Koo, Tae-woong; Chan, Selena; Sundararajan,  
Narayan; Yamakawa, Mineo  
PA Intel Corporation, USA  
SO PCT Int. Appl., 35 pp.  
CODEN: PIXXD2  
DT Patent  
LA English  
FAN.CNT 3

|      | PATENT NO.     | KIND   | DATE     | APPLICATION NO. | DATE     |
|------|----------------|--|----------|-----------------|----------|
| PI   | WO 2003078649  | A2   | 20030925 | WO 2003-US7641  | 20030311 |
|      | WO 2003078649  | A3   | 20040422 |                 |          |
|      | W:             | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW |          |                 |          |
|      | RW:            | GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG   |          |                 |          |
|      | US 2003186240  | A1   | 20031002 | US 2002-99287   | 20020314 |
|      | US 6972173     | B2   | 20051206 |                 |          |
|      | CA 2478881     | AA   | 20030925 | CA 2003-2478881 | 20030311 |
|      | EP 1488002     | A2   | 20041222 | EP 2003-719382  | 20030311 |
|      | R:             | AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK   |          |                 |          |
|      | JP 2005519622  | T2   | 20050707 | JP 2003-576641  | 20030311 |
|      | US 2006029969  | A1   | 20060209 | US 2005-235796  | 20050926 |
| PRAI | US 2002-99287  | A  | 20020314 |                 |          |
|      | WO 2003-US7641 | W  | 20030311 |                 |          |

=> d 16

L3 ANSWER 16 OF 20 CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 6  
AN 1991:689833 CAPLUS  
DN 115:289833  
TI Surface-enhanced nonlinear spectroscopy  
AU Zhang, Pengxiang; Pan, Duohai; Huan, Yixian; Wang, Tianzhen; Fu, Kede  
CS Inst. Phys., Acad. Sin., Beijing, 100080, Peop. Rep. China  
SO Guangpuxue Yu Guangpu Fenxi (1991), 11(2), 1-9  
CODEN: GYG FED; ISSN: 1000-0593  
DT Journal; General Review  
LA Chinese

=> d 19

L3 ANSWER 19 OF 20 CAPLUS COPYRIGHT 2006 ACS on STN  
AN 1984:182436 CAPLUS  
DN 100:182436  
TI Surface enhancement of \*\*\*coherent\*\*\* \*\*\*anti\*\*\* - \*\*\*Stokes\*\*\*  
\*\*\*Raman\*\*\* scattering by colloidal spheres  
AU Chew, H.; Wang, D. S.; Kerker, M.  
CS Clarkson Coll. Technol., Potsdam, NY, 13676, USA  
SO Journal of the Optical Society of America B: Optical Physics (1984),  
1(1), 56-66  
CODEN: JOBPDE; ISSN: 0740-3224  
DT Journal  
LA English

=> d ab 19

L3 ANSWER 19 OF 20 CAPLUS COPYRIGHT 2006 ACS on STN  
AB CARS signals may be strongly enhanced when the active mols. are located near the surface of a small Ag particle. The theor. anal. is similar to the electrodynamic mechanism for \*\*\*surface\*\*\* - \*\*\*enhanced\*\*\*  
\*\*\*Raman\*\*\* scattering, except that there are 4 instead of 2 elec. fields that stimulate collective electron oscillations within the particle. The general anal. is presented for a sphere of arbitrary size, for arbitrary angle between pump and probe beams, and for arbitrary polarization between pump and probe beams. This is then specialized to the small-particle limit for numerical computation. The peak enhancement for a monolayer of C6H6 on a Ag particle (excitation wavelength 404 nm, Raman shift 992 cm<sup>-1</sup>) is 1012 when both incident beams are polarized perpendicular to the incident plane and 1021 when these beams are cross polarized. These values are averaged over scattering angle. While the CARS amplitudes depend on scattering angle, only the enhancement factor for 1 of the cross-polarized components depends on scattering angle. Enhanced signals from a Ag organosol (Ag dispersed in neat benzene) should be measurable.

=> logoff

ALL L# QUERIES AND ANSWER SETS ARE DELETED AT LOGOFF

LOGOFF? (Y)/N/HOLD:y

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

29.36

33.84

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

-0.75

-0.75

STN INTERNATIONAL LOGOFF AT 16:41:42 ON 07 APR 2006